



Transmission Business Line (TBL)

MEETING MINUTES

Business Practices Technical Forum

Curtailment Workgroup Minutes

January 21, 2003

Presenters: John Anasis and Gloria Carter, BPA Transmission Scheduling

I. Mid-Hour Curtailments

- Discussion reference handout: "Possible Pro Ration Methods for Mid-Hour Curtailments" Prepared by John Anasis and Laura Oliver.
- Three proposed methods for mid-hour curtailments

Method I: Current BPAT practice:

- If cuts are for 1½ -2 hours out, real time will cut based on contract demand.
- For in the hour, immediate curtailments, real time will cut based on what is actually scheduled.
 - Actual contract demand is not part of equation.
 - Each customer's actual schedule is used in calculating the amount to immediately cut.
- Assumes that all non firm has already been cut before pro rata firm cuts are initiated.

Clarifications on Current Curtailment Procedures:

- BPA dispatching does not just issue a new OTC during a mid hour curtailment. The nomograms that they use identifies the MW number they need to cut off the controller. They do so immediately, and then tell BPA transmission real time the total amount that the schedules must be reduced. Real time must then execute the schedule cuts immediately in order to match the schedules to the new controller total, and to determine by how much adjacent control areas need adjust their generation.
- For future hours and future days, an OTC is issued. Capacity desk (future days if notification is received before 9am the day of Preschedule) and real time (future hours) make the appropriate reductions in firm rights via a pro rata calculation, and all firm right holders are contacted. For example, if the capacity is 1000 MW, and demand levels are reduced by 250 MW, then all firm right holders get three-fourths of their contract demand.

Method II. & III.: Adding Contract Demand into Curtailment Computation:

- It was decided that method II. and method III. are essentially the same, in that they include contract demand in the computation. However, method II would need additional mathematical manipulation to reach the amount of cut required.
- Method III would pro rate mid hour cuts based customer's firm contract demand using a new "pseudo OTC" to achieve the required pro rata cut.
- Method III looks at each customers actual schedule as compared to their new pro rata rights.



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- If you were under your new calculated pro rata rights, then no cuts would be necessary.

Mid-Hour Curtailments Discussion:

- Mid hour curtailments are a reliability issue for BPA.
- We are not yet able to do flow based cuts based on internal paths. BPA Transmission's Path Utilization Factor (PUF) looks at internal flow distributions. John said this ability should be available sometime in the near future.

Mid-Hour Curtailments Discussion Conclusions:

- BPA transmission agreed to look into the feasibility and costs of implementing method III for mid hour curtailments.
- Customers will go back and discuss method III in-house given their particular needs
- Customers were encouraged to provide other possible mid hour curtailment methodologies, (and the algorithms) and bring back to the group for discussion.
- Customer comments and proposals should be sent via e-mail to Laura Oliver (lloliver@bpa.gov) or John Anasis (jganasis@bpa.gov).

II. BPA Transmission's New Curtailment Procedure with California ISO:

- Gloria Cater, BPA transmission real time supervisor, distributed a handout explaining the new curtailment procedure on the AC intertie and private NOB portion of the DC intertie.
- BPAT and CASIO will not require transmission schedule cuts for the current hour procedure is invoked.
- A counter schedule, south to north, would flow on the AC or the DC's private NOB.
- This procedure has been posted to BPA Transmission's oasis site (comments should be received via the OASIS posting).
- BPAT will pursue discussions with BC, PWX, LA to ascertain if a similar procedure can be put in place for the Northern Intertie, and LA's portion of the DC (public NOB).

III. WECC Curtailment Procedures:

Timeline of Business Practices on agenda items is currently being rewritten by WECC's ISAS committee. All parties agreed that this item will be covered in the appropriate WECC forum and not here.

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